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Revision: 2	Replaces: 10/01/05	Effective: 04/01/06

#### 1. Purpose:

To provide a listing of PDP identified required compounds for grapefruit.

#### 2. Scope:

This standard operating procedure (SOP) shall be followed by all laboratories analyzing grapefruit for PDP. This SOP shall be used in conjunction with SOP PDP-QC-13 which specifies procedures for selecting marker compounds and process controls and identifies PDP commodity groupings.

#### 3. References:

- PDP Program Plan January June 2005
- SOP PDP-QC-13, "Required Compounds, Marker Pesticides, Process Control Compounds, and PDP Commodity Groupings"
- Pesticide Chemical News Guide

#### 4. **Specific Procedures:**

This SOP represents minimum PDP requirements and is presented as a general guideline. Each laboratory shall have written procedures that provide specific details concerning how the procedure has been implemented in that laboratory.

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### **Compounds Required for Grapefruit Multi Residue Screens**

<b>Grapefruit Compound</b>	Reported As	Pest	<b>Priorit</b>
		Code	$\mathbf{y}$
1-Naphthol <sup>1</sup>		382	2
5-Hydroxythiabendazole <sup>1</sup>		B28	2
Acephate		204	1
Aldicarb <sup>1</sup>		167	2
Aldicarb sulfone		168	2
Aldicarb sulfoxide <sup>1</sup>		169	2
Aldrin		001	3
Allethrin		002	1
Azinphos methyl <sup>1</sup>		042	1
Azoxystrobin		ACX	2
Bendiocarb		658	2
BHC alpha		903	3
Bifenthrin		930	1
Bromacil		153	3
Buprofezin		B52	3
Carbaryl		102	2
Carbendazim <sup>2</sup>		666	4
Chlordane <sup>1</sup>	Chlordane cis	173	3
	And Chlordane trans	172	
	Or Chlordanes total	014	
Chlorpyrifos		160	1
Cyfluthrin		781	1

<sup>1</sup> Required only on samples received by CA1 from CA and MD. Analysis by MI1 on samples received from CO, FL, MI, NY, OH, TX, WA, and WI is not required..

<sup>2</sup> Required only on samples received by MI1 from CO, FL, MI, NY, OH, TX, WA, and WI. Analysis by CA1 on samples received from CA and MD is not required.

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<b>Grapefruit Compound</b>	Reported As	Pest Code	Priorit y
Cyhalothrin	Cyhalothrin, lambda and	AEM	1
,	Cyhalothrin, epimer R157836	AEN	
	or Cyhalothrin, total (L-		
	cyhalothrin+R157836 epimer)	AEL	
DDD	DDD o,p'	909	3
	And/or DDD p,p'	908	
	Or DDD (total)	087	
DDE	DDE o,p'	911	3
	And/or DDE p,p'	910	
DDT	Or DDE (total)	300	2
DDT	DDT o,p'	907 906	3
	And/or DDT p,p' Or DDT (total)	022	
Deltamethrin (includes	Of DD1 (total)	612	1
parent tralomethrin)		012	1
Diazinon		024	1
Diazinon O-analog <sup>1</sup>		395	1
Dichlorvos (DDVP)		338	1
Dicofol	Dicofol o,p'	253	3
Dicolor	And/or Dicofol p,p'	254	3
	Or Dicofol (total)	047	
Dieldrin	01 21 <b>2</b> 0101 (10 <b>111</b> 1)	028	3
Diflubenzuron <sup>1</sup>		651	3
Dimethoate		171	1
Diuron <sup>1</sup>		032	3
	Esfenvalerate+Fenvalerate	ADE	1
Esfenvalerate	Estenvalerate+1 envalerate		
Ethion		107	1
Ethion di oxon		538	1
Ethion mono oxon		AAX	1
Fenamiphos		236	1
Fenamiphos sulfone <sup>1</sup>		745	1
1			

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<b>Grapefruit Compound</b>	Reported As	Pest	Priorit
E		<b>Code</b> 746	<b>y</b> 1
Fenamiphos sulfoxide <sup>1</sup>		A30	2
Fenbuconazole			
Fenpropathrin		808	1
Fluridone		736	3
Heptachlor		044	3
Heptachlor epoxide		143	3
Imazalil		604	2
Imidacloprid		967	2
Lindane		050	3
Malathion		052	1
Malathion O-analog		208	1
Metalaxyl		607	3
Methamidophos <sup>1</sup>		170	1
Methidathion <sup>1</sup>		197	1
Methomyl		159	2
Napropamide		594	3
Norflurazon <sup>1</sup>		596	3
Norflurazon desmethyl <sup>1</sup>		720	3
Omethoate <sup>1</sup>		178	1
o-Phenylphenol		083	3
Oxamyl		537	2
Oxamyl oxime		A47	2
Oxydemeton methyl <sup>2</sup>		219	2
Oxydemeton methyl sulfone	•	245	1
Phosmet <sup>1</sup>		165	1
Piperonyl butoxide <sup>1</sup>		070	3
Prallethrin		ADC	1
Propargite		623	3
Propetamphos 1		636	1
Pyraclostrobin <sup>2</sup>			2

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<b>Grapefruit Compound</b>	Reported As	Pest	Priorit
	_	Code	$\mathbf{y}$
Pyridaben		ABL	3
Pyriproxyfen <sup>1</sup>		B24	3
Resmethrin		556	1
Simazine <sup>1</sup>		149	2
Tetradifon		108	3
Thiabendazole <sup>1</sup>		157	2
Thiazopyr <sup>2</sup>		B12	3
Trifloxystrobin		ADQ	2
Trifluralin		151	3

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Chris Pappas

3/29/06

Revised By: Chris Pappas Date

PDP Document Control Officer, Monitoring Programs Office

8609 Sudley Road, Suite 206

Manassas, VA 20110 (703) 330-2300

Theresa Struble

3-25-06

Reviewed By: Theresa Struble

Date

Presiding Member of PDP Technical Advisory Group

Michigan Department of Agriculture

**Laboratory Division** 

1615 South Harrison Road

East Lansing, MI 48823

(517) 337-5105

Diana Haynes

3/29/06

Approved By: Diana Haynes

PDP Technical Director, Monitoring Programs Office

8609 Sudley Road, Suite 206

Manassas, VA 20110

(703) 330-2300

Martha Lamont

03/29/06

Approved By: Martha Lamont

Date

PDP Program Administrative Director, Monitoring Programs Office

8609 Sudley Road, Suite 206

Manassas, VA 20110

(703) 330-2300

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Revision 2 January 2006 Monitoring Programs Office

- Added CA1 testing requirement for 1-naphthol, 5-hydroxythiabendazole, azoxystrobin, fenamiphos sulfoxide, and trifloxystrobin
- Changed priority levels to reflect current data needs